TECHNICAL PUBLICATIONS

1988

Alberta
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Alberta Forestry, Lands and Wildlife

1988

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FOR ADDITIONAL COPIES OF THIS CATALOGUE, CONTACT:

Alberta Energy/Forestry, Lands and Wildlife
Information Centre
Main Floor, Bramalea Building
9920 - 108 Street
Edmonton, Alberta
T5K 2M4
Phone: (403) 427-3590

Also available: Ref/5-January 1988-General Publications: Alberta Energy/ Forestry, Lands and Wildlife, 1988.

Technical Publications Catalogue 1988

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OBTAINING TECHNICAL PUBLICATIONS

Information Centre

Technical publications may be ordered in writing or picked up at the Information Centre from Monday to Friday, 8:15 a.m. to 5:00 p.m.

Students and the general public may review publications and make inquiries about programs and services of the departments. Additional copies of the publications catalogue are also available from:

Information Centre
Alberta Energy/Forestry, Lands and Wildlife
Main Floor, Bramalea Building
9920 - 108 Street
Edmonton, Alberta, Canada
T5K 2M4
Phone: (403) 427-3590

Alberta Energy/Forestry, Lands and Wildlife Library

In addition to all reports produced by the departments, the library collection includes material from other agencies on renewable and non-renewable resources. While priority is given to the departments' staff, loans are permitted to other Alberta government employees and libraries. Library facilities are available Monday to Friday, 8:15 a.m. to 4:30 p.m., at:

9th Floor, South Petroleum Plaza
9915 - 108 Street
Edmonton, Alberta, Canada
T5K 2C9
Phone: (403) 427-7425

Limited Distribution

The departments reserve the right to restrict distribution of a publication because of its limited quantity. A request for a publication with limited distribution should include an explanation of why it is needed. **Limited distribution** is indicated after the entry.

Priced Publications

A cheque or money order in **CANADIAN FUNDS** for a priced publication must accompany the order. Cheques are payable to the Provincial Treasurer except where noted otherwise. Invoices cannot be issued.

OTHER INFORMATION SERVICES

Offices to obtain the maps and publications listed in this section are open Monday to Friday, 8:15 a.m. to 4:30 p.m.

Maps and Aerial Photographs

Complete map coverage of Alberta is available in different scales. Planimetric, topographic, forest cover maps, special maps such as land inventories, aeronautical charts and navigation charts are for sale. A catalogue is available for further information (see Surveying and Mapping - Maps Alberta Catalogue).

Aerial photography of the entire province is also available. Contact prints, enlargements and mapping diapositives can be purchased. A price list is available (see Surveying and Mapping - Maps Alberta Air Photos).

Maps Alberta
Alberta Forestry, Lands and Wildlife
2nd Floor, North Petroleum Plaza
9945 - 108 Street
Edmonton, Alberta, Canada
T5K 2G6
Phone: (403) 427-3520

Maps Alberta
Alberta Forestry, Lands and Wildlife
Room 804, J. J. Bowlen Building
620 - 7th Avenue S.W.
Calgary, Alberta, Canada
T2P 0Y8
Phone: (403) 297-7389

Mineral Resources Maps

Sets of maps are produced on oil gas wells, oil sands areas, coal leases, quartz mineral dispositions and restricted areas of oil and gas exploration in Alberta. A catalogue is available on these and other mineral maps from the Department of Energy.

Minerals Support Branch
Alberta Department of Energy
12th Floor, South Petroleum Plaza
9915 - 108 Street
Edmonton, Alberta, Canada
T5K 2C9
Phone: (403) 427-7704

Technical Reports and Information

The following agencies produce technical reports on energy and other resources. Contact them for additional information.

Alberta Agriculture
Publications Office
7000 - 113 Street
Edmonton, Alberta, Canada
T6H 5T6
Phone: (403) 427-2121

Alberta Energy Resources
Conservation Board
Publications, Maps and
Services Catalogue
640 - 5th Avenue S.W.
Calgary, Alberta, Canada
T2P 3G4
Phone: (403) 297-8382

Alberta Environment Communications
12th Floor, Oxbridge Place
9820 - 106 Street
Edmonton, Alberta, Canada
T6K 2J6
Phone: (403) 427-6267

Alberta Environmental Centre
Communications Section
P.O. Bag 4000
Vegreville, Alberta, Canada
T0B 4L0
Phone: (403) 632-6761

Alberta Recreation and Parks
Public Communications Office
1660 Standard Life Centre
10405 - Jasper Avenue
Edmonton, Alberta, Canada
T5J 3N4
Phone: (403) 427-2008

Alberta Research Council
Publications Sales
250 Karl Clark Road
Mailing Address: P.O. Box 8330
Postal Station 'F'
Edmonton, Alberta, Canada
T6H 5X2
Phone: (403) 450-5390

Energy, Mines and Resources Canada
Index of Selected Publications
Information EMR
580 Booth Street
Ottawa, Ontario, Canada
K1A 0E4
Phone: (613) 995-3065

GENERAL

Advisory Committee on Heavy Oil and Oil Sands Development 3rd Annual Report 1986
Annual summary of committee's activities and operations.
1986, 16 pp., maps, illus.

Alberta Energy: Annual Report
Annual summary of the department's activities.
1985/86, 1986/87
NOTE: The 1986/87 report will be available spring 1988.

Alberta Forestry, Lands and Wildlife: Annual Report
Annual summary of the department's activities.
1986/87 NOTE: This report will be available spring 1988.

Alberta Energy and Natural Resources: Annual Report
Annual summary of the department's activities, with resource industry and statistical reports.
1976/77, 1977/78, 1978/79, 1980/81, 1981/82, 1983/84, 1984/85

Alberta/Canada Energy Resources Research Fund: Annual Report
Annual summary of energy-related research projects supported by the joint provincial-federal fund.
1979/80, 1980/81, 1981/82, 1982/83, 1984/85, 1985/86, 1986/87
NOTE: The 1986/87 report will be available spring 1988.

CLIMATE

Alberta Climate Station Catalogue

T. Thompson

List of locations collecting climatic data in Alberta, geographically referenced by map sheet. Most data-gathering agencies included. This information is also available on magnetic tape and floppy disk (IBM PC). Private companies are requested to supply tapes or disks.

1985

Climatic Networks - Proceedings of the Workshop and Annual Meeting of the Alberta Climatological Association, April 1978

J. M. Powell

Workshop on standards, design and use of climatic networks, with agency reports on climatic activities in Alberta. Photocopies available.

1978, 101 pp., maps, tables

Current Climatological Activity in Alberta - Proceedings of the Technical and Business Sessions of the Sixth Annual General Meeting of the Alberta Climatological Association, 25 February 1982

B. Kuhnke

Technical presentations on agrometeorology, snow measurement, hailstorm and fire weather, with agency reports on climatic activities.

1982, 87 pp., tables

Current Climatological Activity in Alberta - Proceedings of the 7th Annual Workshop, Alberta Climatological Association, February 1983

Technical papers on agrometeorology, hydromet, lightning, flood forecasting and wind erosion, with agency reports on climatic activities.

1983, 106 pp., tables

The Impacts of Climate Fluctuations on Alberta's Resources and Environment - Proceedings of the Workshop and Annual Meeting of the Alberta Climatological Association - February 1981

K. R. Leggat and J. T. Kotylak

Report on the impacts of climate change on resource management with agency reports on climatic activities.

1981, 107 pp., tables

Lightning Over Alberta: May - September

A summary of lightning incidence.

1972-1977, 1972, 1974, 1975, 1976, 1977, 1978

Precipitation Means: Alberta Forestry Stations: May to September 1963 - 1970

E. V. Stashko

Data on the precipitation of forested areas, and the relationship between amount and local topography.

1971, 32 pp. illus., tables

Precipitation Over Alberta: May - September

A report analysing and mapping monthly precipitation, cumulative precipitation and abnormalities.

1971, 1972, 1973, 1974, 1975

Proceedings of the 1980 Annual Meeting of the Alberta Climatological Association
K. Leggat, ed.
A report on activities of the association for 1979/80, and the climate-related activities of Alberta agencies.
1980, 56 pp.

The Synopsis of the Sacramento Precipitation Storage Gauge Network
P. Jablonski
Annual summary of precipitation data collected in the Green Area of Alberta.
1984, 1985, 1986, 1987
maps, tables

ENERGY

COAL

Alberta Coal: Energy for the World
A comprehensive description of Alberta's varied coal products: their properties, where they are found and how they are mined, plus an outline of future directions for Alberta's coal industry.
1986, 28 pp., maps, illus., tables **Limited Distribution**

Alberta Coal Research Strategic Plan
This plan provides a framework to identify and select coal research and development activities to facilitate and foster economic activity and development by the private sector, and ensure the sound management of Alberta's coal resources. Copies available from: Office of Coal Research and Technology, Alberta Energy, 2nd Floor, Pacific Plaza, 10909 Jasper Avenue, Edmonton, Alberta, Canada T5J 3M8
1983, 30 pp. **Limited Distribution**

Alberta Office of Coal Research and Technology Annual Review
Research and technology report on activities in coal research.
1984/85, 1985/86

Coal Information
Lists databases from which coal information can be obtained.
1986, brochure

Coal Slurry Pipeline Feasibility Study 1981: Executive Summary
Fluor Canada Ltd. Consultants for Energy and Natural Resources, and Economic Development
1981, 27 pp., maps

An Economic Analysis of Coal Pipeline Systems
Summarizes the principal findings of an investigation of pipelines as an alternative to rail-haul to move Alberta coal to the west coast or central Canada.
1986, 6 pp., illus. **Limited Distribution**

Western Canadian Coal in Ontario
Report on the feasibility of shipping Alberta coal to Ontario markets.
1984, 12 pp., illus., tables

CONVENTIONAL ENERGY

Development of Enhanced Oil Recovery Techniques
Describes major research work conducted in Alberta and supported by the Alberta/Canada Energy Resources Research Fund to develop improved methods of recovering crude oil from underground reservoirs.
1986, 13 pp., illus. **Limited Distribution**

Thermographic Detection System for Pipeline Leaks
An airborne detection method that can be used to find small leaks in natural gas pipelines.
1986, 6 pp., illus. **Limited Distribution**

ENERGY CONSERVATION

Control of Heat Loss Associated With Overhead Doors
Summarizes two studies that resulted in methods to reduce energy losses from buildings equipped with overhead doors.
1986, 6 pp., illus. **Limited Distribution**

Development of Delta-Blade Wind Turbines
Describes development of a unique type of windmill, especially suited to pump water under the wind conditions found in Alberta.
1986, 10 pp., illus. **Limited Distribution**

Development of a Krypton Fluoride Laser for Fusion Energy Research
Development of a laser system that might be used to initiate fusion energy processes.
1986, 6 pp., illus. **Limited Distribution**

Energy Conservation and Renewable Energy Research Development and Demonstration Program Annual Review
Describes research projects of the Alberta/Canada Energy Resources Research Fund for each fiscal year.
1984/85, 1985/86, 1986/87

Energy Conserving Characteristics of Common Building Materials and Methods
Describes research to determine how various building materials affect energy consumption in residential and commercial buildings.
1986, 14 pp., illus., tables **Limited Distribution**

Energy Management in Commercial Buildings
Summarizes four studies aimed at testing, demonstrating or designing systems to save energy in commercial buildings
1986, 8 pp., illus. **Limited Distribution**

Geothermal Energy Resources in Alberta
Summary brochure of a geothermal energy research project conducted by Dr. F. W. Jones, University of Alberta, Edmonton.
1986, 10 pp., maps, tables **Limited Distribution**

Helium Recovery from Natural Gas
Describes a method of recovering helium from natural gas that is less expensive and consumes less energy than existing methods.
1986, 6 pp., illus. **Limited Distribution**

Low Energy Home Designs
Guide for planning and designing a low energy home, produced by Alberta Agriculture with assistance from Energy Conservation Branch, Alberta Energy and Natural Resources.
1982, 94 pp., illus., tables **Limited Distribution**

Measuring and Harnessing Alberta's Wind Resources
Describes two research investigations into use of wind energy to pump water or generate electricity.
1986, 10 pp., illus., tables **Limited Distribution**

Municipal Energy Conservation in Alberta
Anna Parkinson and W.A. Ross, Urban Consultants Ltd. for Energy Conservation Branch
Survey of Alberta municipalities to evaluate their interest in energy management and identify their needs.
1982, 94 pp., tables **Limited Distribution**

Performance Characteristics of Energy Efficient Residential Furnaces
Describes four research projects involving natural gas-fired residential furnaces.
1986, 9 pp., illus., tables **Limited Distribution**

A Practical Method for Defouling Heat Exchangers
Describes an effective system of removing bacteria from heat exchangers, contrasted with methods other than chlorine which have proven ineffective.
1986, 6 pp., illus. **Limited Distribution**

Practical Methods to Seal and Insulate Residential Buildings
Describes three projects that demonstrated the value and importance of insulating Alberta dwellings.
1986, 9 pp., illus., tables **Limited Distribution**

Solar Energy Potential for Alberta
Several research projects that evaluate the potential for using solar energy collection systems under Alberta's climatic conditions.
1986, 9 pp., maps, illus. **Limited Distribution**

Some Methods of Insulating Basements, Walls and Windows
Describes several research projects that study methods of insulating the basements, walls and windows of residential buildings.
1986, 10 pp., illus., tables **Limited Distribution**

Technologies to Recover and Use Alberta's Sulphur Resources
Summarizes four studies, conducted by university and industry researchers, aimed at improving the recovery and use of sulphur in Alberta.
1986, 13 pp., illus. **Limited Distribution**

MINERALS

Diamond Drill Core Selection and Storage Program
An outline providing information and guidelines to the mineral resources industry and interested parties (Subcommittee Meeting of Provincial Geologists).
1982, 25 pp. **Limited Distribution**

Metallic Minerals in Alberta
A guide to exploration and development of metallic minerals in Alberta.
1985, 24 pp., maps

Metallic Minerals Royalty Guidelines
A guide to the metallic minerals royalty regulations.
1985, 11 pp., illus.

POLICY AND LEGISLATION

Alberta Energy Statutes and Regulations
PRICE: $20 for original set and first year of updates (pre-paid); yearly subscription for updating is $20 (invoiced). Payable by cheque or money order (**CANADIAN FUNDS**) to the Provincial Treasurer. Contact: Forms Management, 7th Floor, South Petroleum Plaza, 9915 - 108 Street, Edmonton, Alberta, Canada T5K 2C9. Phone (403) 422-4269. Individual acts and regulations are also available and vary in price from $.50 to $3.50 (in Canadian funds payable to the Provincial Treasurer). Order from Publications and Statutes, 11510 Kingsway Avenue, Edmonton, Alberta, Canada T5G 0X5. Phone (403) 427-4952.

Alberta Oil and Gas Tenure
Outlines the acquisition and retention of oil and gas rights in Alberta. It is geared toward individuals interested in leasing oil and gas rights for the purpose of drilling for and producing oil and gas.
1987, 30 pp., illus., tables

A Coal Development Policy for Alberta
A statement of the policy and its elements, as well as the administrative procedures concerning individual coal development proposals. Photocopies available. NOTE: Being revised.
1976, 47 pp.

Freehold Mineral Tax - Information on the Freehold Mineral Rights Tax Act and Regulations
Prepared for the convenience of freehold mineral owners and their lessees and/or payers. It explains legislation relating to the taxation of freehold mineral rights in Alberta under the Freehold Mineral Rights Tax Act and Regulations.
1984, 23 pp.

Guidelines: Crude Oil Royalty Holiday Program, Gas Well Incentive Program, Deep Gas Royalty Holiday Program
Guide to legislation concerning the Crude Oil Royalty Holiday Program, the Gas Well Incentive Program and the Deep Gas Royalty Holiday Program.
1985, 18 pp.

Information Letters
Letters, issued irregularly, clarifying department legislation and offering other policy communications and directives of interest to industry. An index to the letters is available on request. Contact: Minerals Support Branch, Mineral Resources Division, 12th Floor, South Petroleum Plaza, 9915 - 108 Street, Edmonton, Alberta Canada T5K 2C9. Phone (403) 427-7707.
1974 to present, serial

FISH

GENERAL

The Fishes of Alberta
Joseph S. Nelson and Martin J. Paetz
An account of the distribution and biology of all fish species in Alberta.
PRICE: $4 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1970, 282 pp., maps, illus.

AQUACULTURE

Game Fish Farming Fact Sheets
No. 1 Capital and Operation Costs of Trout Farming
No. 2 Marketing Rainbow Trout
No. 3 Intensive Trout Farming 1: Spawning and Incubating Eggs
No. 4 Intensive Trout Farming 2: Rearing Techniques
No. 5 Cage-Rearing Rainbow Trout
No. 6 Predator Control
No. 7 Fish Kills and Aeration
No. 8 Control of Weeds and Algae
No. 9 Stocking a Pond
No. 10 References and Suggested Reading for Fish Farmers
No. 11 General Water Quality Criteria for Fish
No. 12 Water Quality Testing
No. 13 Equipment and Supplies
1986, sheets **Limited Distribution**

Streambank Protection in Alberta
R. Makowecki
A review of the loss of fish habitat and declining water quality from livestock grazing, and a description of the methods used in the Buck for Wildlife Program to maintain, improve and develop wildlife and fisheries habitats.
1980, 29 pp., illus. **Limited Distribution**

FISHERIES REPORTS

Characteristics of the Lakes and Ponds Within the Edmonton Area
L. A. Rhude
Data on 67 lakes, including a rating for sportfishing. Photocopies available.
1979, 55 pp., illus. **Limited Distribution**

Characteristics of Some Canadian Shield Lakes in Alberta
L. A. Rhude
A report collecting and organizing data on 49 lakes previously surveyed in the shield region. For each lake there is a bathymetric map, resume of physical, chemical and biological features, and a rating for sport fishery potential.
1977, 109 pp., illus., tables **Limited Distribution**

The Sport Fishery in Alberta: Facts and Figures for 1975 and 1980
L. A. Longmore, K. Brickley and C.E. Stenton
Sportfishing statistics in Alberta for 1975 and 1980. Photocopies available.
1982, 85 pp., tables **Limited Distribution**

SPECIES MANAGEMENT PLANS

Walleye Management Plan: *An Overview*
Outlines the present and future management strategy for walleye in Alberta. 1985, 17 pp., illus. **Limited Distribution**

See also FOREST - WATERSHED

FOREST

GENERAL

Alberta Land Inventory Land Capability For Forestry

J. H. Archibald, T.R. Bossenberry, Z.T. Nemeth, R. C. Shelford and J.E. Przeczek

A final report on the methods used to assess and rate land for forest productivity in the Canada and Alberta Land Inventory programs. Landform maps provided. See special geomorphic landform maps available from Maps Alberta.
1979, 41 pp., illus. **Limited Distribution**

Alberta Scaling Manual

Description of Alberta's scaling system and how it must be applied.
1986, 126 pp., illus., tables **Limited Distribution**

Forest Statistics Review

Statistical reports on Alberta forests and forest industries.
1978-79, 1979-80, 1981-82, 1982-83, 1983-84, 1984-85

Grant Application Procedures, Forest Development Research Trust Fund

Lists application procedures for grants from the Forest Development Research Trust Fund. Funds are available to the private sector and public institutions for conducting problem-oriented and basic research. Research results should lead to improved forest land management practices and improved forest utilization in harmony with long-term economic, aesthetic and social needs.
1983, 8 pp. including application

FIRE

Fire Temperatures in Grass, Shrub and Aspen Forest Communities of Central Alberta

A. W. Bailey and M. L. Anderson

A report on fire temperatures associated with headfires, backfires, and with various fuels in grass, shrub and forest plant communities. (Reprinted from the Journal of Range Management.)
1980, 4 pp., illus., tables

History of Forest and Prairie Fire Control Policy in Alberta

P. J. Murphy

A review of history and policy related to fire control through 12 periods, each marked by major political events in the province. PRICE: $15 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 408 pp., illus.

Wildfire Behavior Associated with Upper Ridge Patterns

N. Nimchuk

An analysis of upper air circulation on wildfire behavior.
1983, 46 pp., illus., maps, tables **Limited Distribution**

FOREST INDUSTRY

Alberta Consulting Foresters Directory
The directory includes alphabetical, geographical, specialization and corporate listings of forestry consultants.
1986, 32 pp. **Limited Distribution**

Culvert Sizing for Stream Crossings: A Handbook of Three Common Methods
Robert Anderson, David Asquin and Paul Jablonski
Outlines three methods of calculating culvert sizes for small streams.
1986, 40 pp., maps, illus., tables **Limited Distribution**

Directory of Primary Wood-Using Industries in Alberta
C. Bamsey
Results of a survey of sawmills, planing mills, plywood mills, wood treating plants and pulp, paper, and paperboard mills. Mill location, capacity, wood supply, current production and employment, products, markets, woodlands equipment and mill facilities are given.
1987, 265 pp., maps, tables **Limited Distribution**

Forest Products and Forest Industrial Development Research Program: Annual Report
Energy and Natural Resources, Economic Development and the Alberta Research Council
Details of strategic studies projects and forest products research and development projects conducted each year.
1983, 1984, 1985

Forest Products Conversion Factors
Description of standards of measure and conversion factors for forest measurements taken by field staff.
1985, 55 pp., illus. **Limited Distribution**

Guidelines for Manufacturing Inspections
Guidelines to set out a uniform standard for establishing recovery factors for a cubic volume of logs entering a sawmill.
1984, 57 pp., illus., tables **Limited Distribution**

Guidelines for Sawmill Studies
Guidelines for studies conducted to encourage full utilization at primary wood processing plants.
1984, 49 pp., illus., tables **Limited Distribution**

Resource Road Planning Guidelines for the Green Area of Alberta
G. L. Fisher
Describes five classes of roads for use by the timber and petroleum industries. Recreation roads and other types of roads that may be required by the Alberta Forest Service are also included.
1982, 40 pp., maps, illus., tables **Limited Distribution**

Stream Crossing Guidelines - Operational Guidelines for Industry
G. L. Fisher, A. G. H. Locke and B. C. Northey
A guide for building stream crossings required in the exploration or development of resources.
1985, 52 pp., maps, illus., tables **Limited Distribution**

Supply and Demand Utility Poles in Alberta
B. Karaim
Compiled statistics for 1970-74, including a list of producers.
1975, 29 pp., illus. **Limited Distribution**

FOREST MANAGEMENT

Alberta Phase 3 Forest Inventory: An Overview
Describes Alberta's Phase 3 forest inventory including a general overview, methods used and a summary of the important results.
1986, 40 pp., illus., tables

The Environmental Effects of Timber Harvesting in Alberta: Vol. I and II
This study was initiated to examine the forest management practices employed under various tenures within a designated project area. This area includes an important segment of Alberta's forest resources and exhibits ample potential for conflicts in land use objectives. PRICES: project reports (2 volumes) $10, map and overlays $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1973

Forest Landscape Management Guidelines for Alberta
K. Fairhurst, T. Turner and E. Kulscar
Strategies and techniques are demonstrated that can be used for the integration of landscape management with other resource development concerns. PRICE: $7 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, 57 pp., maps, illus., tables

Forest Management in Alberta
A description of Alberta's forest management programs. Burgess-Lane Memorial Lecture presented by F. W. McDougall.
1986, 27 pp., maps, illus., tables **Limited Distribution**

Timber Harvest Cut Block Design
C. Henderson
A manual on the planning and harvesting ground rules for cut block design, considering the influences of wind, wildlife, silviculture, controlled burning, watershed management, aesthetics and harvesting. NOTE: Being revised.
1977, 38 pp., illus., tables **Limited Distribution**

Timber Quota Policy
The purpose of this book is to clarify the definition of quotas and to explain how the definition is to be applied to existing and new quotas.
booklet, 1984, 11 pp., illus. **Limited Distribution**

RECLAMATION

Cadomin Reclamation Research Project: Third, Fourth and Fifth Year Results
M. R. Islam and S. K. Takyi
Summarizes the results for the third, fourth and fifth growing seasons of reclamation experiments on an abandoned mine spoil in a subalpine area.
1984, 50 pp., tables

Evaluation of Trees and Shrubs for Oil Sands Reclamation: Field Trial Results
Russell Ecological Consultants
Results of three field trials, near the Mildred Lake field camp, to test one or more seed sources of promising native and exotic woody species. PRICE: $2 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987, 42 pp., illus., tables

Pine and Spruce Seedling Growth: Effects of Seeded Ground Covers
Russell Ecological Consultants
A study, in the Rocky Mountain foothills, to: 1) determine if competition from seeded grasses and legumes had an adverse effect on the performance of interplanted lodgepole pine and white spruce seedlings; and 2) examine ways of optimizing erosion control and tree performance by varying the composition and application rate of the grass-legume seed mixtures.
1987, 24 pp., illus., tables **Limited Distribution**

Reclamation With Native Grasses in Alberta: Field Trial Results
Russell Ecological Consultants
Describes the first long-term results from 10 native grass field trials conducted by the Alberta Forest Service between 1978 and 1981. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, 57 pp., tables

The Resource Handbook: Operational Guidelines for Forestry
Guidelines for resource protection, of concern to industries involved with surface-disturbing operations on forested lands.
1984, 52 pp., illus. **Limited Distribution**

Testing of Seed Pre-Germination Treatments for Selected Native Shrub Species: Preliminary Phase
P. King, G. Grainger and A. Straka
Results of preliminary experiments on pre-germination treatments for nine selected native woody plant species being tested for reclamation of disturbed land in the Eastern Slopes. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1983, 65 pp., tables, illus.

REFORESTATION

Alberta Forest Regeneration Survey Manual
A manual presenting a systematic and standard approach for determining stocking of desired tree species on cutover or other denuded lands.
1979, 43 pp. **Limited Distribution**

Containerized Seedling Processing System (Pine Ridge Forest Nursery)
H. R. Winn and W. Dubbeldam
A description of equipment used in growing containerized seedlings at the nursery.
1981, 12 pp., illus.

Early Performance of Some Native and Cultivated Grasses on Oil Sands Mine Disturbance Materials
H. Tomm
A study of field trials of adaptability of native and cultivated grasses to oil sands disturbance materials. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1983, 29 pp., maps, tables, illus.

Evaluation of Trees and Shrubs for Coal Mine Reclamation in the Eastern Slopes
W. B. Russell
Summarizes current and past results of test plantings on coal mine tailings and discusses the practical implications for reclamation. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 55 pp., tables, illus.

Lodgepole Pine and White Spruce Growth and Survival After Herbicide and Fertilizer Treatments on Grassy Clearcut Forest Land
D. Blackmore
Summary report of experimental results of treatments of lodgepole pine and white spruce on grassy clearcuts. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1982, 18 pp., tables

Pine Ridge Forest Nursery: Where It All Begins
Background about the construction of the nursery and information on its various functions such as seed extraction, cleaning and storage, container seedling production, bareroot seedling production and research.
1980, 18 pp., illus.

RESEARCH

Alberta Aspen - Tomorrow's Resource Today
Report on the structural integrity and grades of aspen as well as its possible commercial uses.
1984, 27 pp., illus.

Analysis of Poplar-Based Panelboard Development Program Options for Alberta
Carroll-Hatch (International) Ltd. (Consultants)
Study to determine whether or not a pilot panelboard plant in Alberta would induce development of the Alberta panelboard industry.
1982, 197 pp. illus., tables

Forested Plant Associations of the Northern Subalpine Regions of Alberta
Provides a classification of forest ecosystems that occur in the northern (subalpine) zone in Alberta.
1984, 124 pp., maps, illus., tables **Limited Distribution**

Performance of Native Grasses and Cultivated Legumes and Grasses on Disturbances in the Eastern Slopes of the Rockies
Documents the adaptability of the grasses and legumes to reclamation sites in the mountains and foothills. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 30 pp. maps, tables

Plant Cover Establishment Methods on a Severe Rocky Mountain Foothills Site
Report on studies undertaken to assess plant cover establishment success employing different seedling methods and surface manipulation. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 33 pp. illus., tables

Poplar Chemical Process Development and Demonstration Facility
W. L. Wardrop & Associates Ltd. (Consultants)
Conceptual design for a multi-purpose wood chemical pilot/demonstration plant.
1982, 226 pp. illus., tables

Role of Topsoil Fertilizers and Companion Crops in Revegetation of Two Severe Sites in the Alberta Foothills and Mountains
Summary of results of fertilizer, plant cover and companion crop trials on reclamation sites. PRICE: $3 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 29 pp. illus., tables

WATERSHED

Erosion Potential Index - A Method for Evaluating Sheet Erosion at Stream Crossings

Phillip Anderson and Robert Anderson

A simple method for evaluating erosion potential at road-stream crossings.
1986, 25 pp. illus., tables

Tri-Creeks Watershed Study Reports

Hydrologic Simulation of Tri-Creeks Watershed: Report No. 4

W. Stevens

A description of a model developed and used to evaluate the effect of land use on the water cycle.
1980, 25 pp., maps, illus., tables **Limited Distribution**

Mesoclimate of the Tri-Creeks Region: Report No. 3

P. D. Jablonski

A summary of the variations in temperature and precipitation in Tri-Creeks during the pre-treatment phase of the study, 1967-77.
1978, 14 pp., illus., tables **Limited Distribution**

Migratory Behavior of the Major Salmonid Fishes, Rainbow Trout, Dolly Varden, Char and Mountain Whitefish in the Tri-Creeks Watershed, 1969 to 1978: Report No. 6

G. L. Sterling

The spawning and movements of three species in the McLeod River and Wampus Creek.
1980, 64 pp., illus., tables **Limited Distribution**

Population Dynamics, Age, and Growth of Rainbow Trout (Salmo gairdneri) and Dolly Varden (Salvelinus malma) in the Tri-Creeks Watershed, 1971 to 1977: Report No. 2

G. L. Sterling

A report on the species present, including rainbow trout and Dolly Varden, estimates and growth patterns, the annual age structure of populations, length-weight relationships and the sex ratios of rainbow trout.
1978, 86 pp., illus., tables **Limited Distribution**

Pretreatment Water Quality of the Tri-Creeks Experimental Watershed: Report No. 7

P. D. Jablonski

Results of the pre-treatment physical, chemical and thermal water quality of the Tri-Creeks experimental watershed.
1980, 56 pp., illus., tables **Limited Distribution**

Stream Flow Characteristics and Calibration of the Tri-Creeks Subwatersheds (1968-1977): Report No. 5

G. P. Bergstrom

A report on the hydrology of the Tri-Creeks experimental watershed.
1980, 20 pp., illus., tables **Limited Distribution**

A Study into the Effects of Logging on the Physical, Chemical and Biotic Conditions of Three Alberta Eastslope Streams: Report No. 1

P. D. Jablonski

An inventory, at the pre-treatment stage, of the geology, soils, topography, climate and biology typical of the high elevation lodgepole and spruce forests of the northwestern Alberta foothills.

1978, 35 pp., illus., tables **Limited Distribution**

Water Quality and Stream Flow Data

Summary of suspended sediment and stream flow data collected annually in Bow/Crow, Rocky/Clearwater, Edson and Grande Prairie forests.

1984, 1985, 1986, 1987 **Limited Distribution**

Watershed Management in the Paddle River Headwaters

A discussion of the relationship between forests and flood and an update of the watershed management policies for the headwaters of the Paddle River.

1986, maps, illus., tables **Limited Distribution**

LAND

GENERAL

Plan Requirements for Final Plans Submitted by Gas Co-ops in Support of Pipeline Agreement Applications
A guide to the information which must be indicated on plans submitted by gas co-ops.
1983, information sheet

Reference Manual For Alberta Land Agents
Land Agent Advisory Committee Registrar of Land Agents
Reference manual in binder form, for land agents dealing with legislation, land law and conveyancing, surface rights, land appraisal and compensation, land reclamation, agricultural land use and management, communications and negotiations. PRICE: $22 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1983, 150 pp. maps, illus., tables

Requirements for Plans for Licences of Occupation
An outline of plan information required by the department in support of licence of occupation applications involving public lands. NOTE: Being revised, available spring 1988.
1983, information sheet

Requirements for Survey Plans
Details of survey plan information required by the department, covering industrial and mineral developments on public lands (surface lease dispositions). NOTE: Being revised, available spring 1988.
1983, information sheet

The Route Selection Process: A Biophysical Perspective
An examination of five methods for selecting a linear route.
1980, 36 pp., illus., tables

INVENTORIES

Cameron Hills Biophysical Survey
Matt Fairbarns
Description of the vegetation and special features of the Cameron Hills.
1983, 79 pp., maps, tables **Limited Distribution**

Conservation Values and Management Concerns in the South Castle Natural Area
Matt Fairbarns
Description of the vegetation, wildlife and special features of a proposed natural area along the Castle River in southwestern Alberta.
1986, 83 pp., maps, tables **Limited Distribution**

Crow Lake Study Area - Northeastern Alberta - Biophysical Inventory
Daniel A. MacIsaac
Summarizes the vegetation and special features of the Crow Lake Ecological Reserve and surrounding area.
1986, 205 pp., maps, tables **Limited Distribution**

Kazan Upland Resource Assessment for Ecological Reserves Planning in Alberta
Cottonwood Consultants Ltd., Calgary
A summary of the botanical and wildlife studies conducted in 1983 in the Kazan Upland of northern Alberta.
1983, 81 pp., maps **Limited Distribution**

Little Fish Lake Resource Assessment
Cliff Wallis and Cleave Wershler
Biophysical information on the Little Fish Lake area, near Drumheller, Alberta.
1985, 78 pp., maps, tables **Limited Distribution**

Natural Features Assessment of the Cardinal Divide Area
Dr. Peter Achuff
Comparison of the Cardinal Divide area with protected sites in the Alberta Rocky Mountains, based primarily on elevation.
1984, 75 pp., maps, tables **Limited Distribution**

Silver Valley Biophysical Resource Analysis
J. Rintoul
Vegetation and special features of the Silver Valley Ecological Reserve.
1985, 75 pp., maps, tables **Limited Distribution**

Vegetation, Flora and Special Features of the Candidate Goose Mountain Ecological Reserve, 1984
Cheryl Bradley and Matt Fairbarns
Baseline biophysical information on Goose Mountain, an area in the Swan Hills.
1984, 90 pp., maps, tables **Limited Distribution**

Wainwright Study Area: A Biophysical Inventory, 1983
Alan W. Fehr
Baseline biophysical information on the Wainwright dunes and fens, east-central Alberta.
1984, 153 pp., maps, tables **Limited Distribution**

LAND CONSERVATION

Land Conservation and Reclamation Council: RRTAC Reports

Reclamation Research Technical Advisory Committee (RRTAC) Reports are available for $5 or $10 as stated (cheque or money order payable to the Provincial Treasurer). Order reports from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta, Canada T5G 2Y5. Phone (403) 427-4952.

Characterization and Variability of Soil Reconstructed After Surface Mining in Central Alberta RRTAC 86-2
T. M. Macyk
Reconstructed soils representing different materials handling and replacement techniques were characterized and variability in chemical and physical properties was assessed. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 146 pp., tables

Chemical and Mineralogical Properties of Overburden: Plains Hydrology and Reclamation Program RRTAC 86-5

A. Maslowski-Schutze

Describes the physical and mineralogical properties of overburden materials in an effort to identify individual beds within the bedrock overburden that might be significantly different in terms of reclamation potential. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 60 pp.

A Critical Analysis of Settling Pond Design and Alternative Technologies RRTAC 86-1

A. Somani

Part of the Coal Association of Canada's Mountains and Foothills Reclamation and Research Program, this report examines settling pond design and sizing and alternative technologies potential. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 372 pp., tables, illus.

Generalized Procedures for Assessing Post-Mining Groundwater Supply Potential in the Plains of Alberta - Alberta Research Council - Plains Hydrology and Reclamation Project RRTAC 86-3

M. R. Trudell and S. R. Moran

Proposes a sequence of procedures to identify and characterize potential aquifers in lands reclaimed after surface mining of coal. PRICE: $5 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 30 pp., tables

Geology of the Battle River Site: Plains Hydrology and Reclamation Project RRTAC 86-4

A. Maslowski-Schutze, R. Li, M. Fenton and S. R. Moran

Summarizes the geological setting of the Battle River study site, to provide a general understanding of geological conditions adequate to establish a framework for hydrogeological and general reclamation studies. PRICE: $5 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 86 pp., maps, illus., tables

Manual of Plant Species Suitability for Reclamation in Alberta 2 Volumes RRTAC 80-5

L. E. Watson, R. W. Parker and P. F. Polster

Forty-three grass, 14 forb and 34 shrub and tree species are assessed in terms of their fitness for use in reclamation. Includes range maps, growth habit, propagation, tolerances and availability. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1980, 560 pp., maps

Post-Mining Groundwater Supply at the Battle River Site: Plains Hydrology and Reclamation Project RRTAC 86-6

M. R. Trudell, G. J. Storenberg and S. R. Moran

Evaluates the availability of water supply in or beneath cast overburden to support post-mining land use, including both quantity and quality considerations. The study area is the Battle River mining area in east-central Alberta. PRICE: $5 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 60 pp.

Post-Mining Groundwater Supply at the Highvale Site: Plains Hydrology and Reclamation Project RRTAC 86-7

M. R. Trudell

Evaluates the availability of water supply in or beneath cast overburden to support post-mining land use, including both quantity and quality considerations. The study area is the Highvale mining area in west-central Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 26 pp.

Proceedings: Revegetation Methods for Alberta's Mountains and Foothills RRTAC 85-1

P. F. Ziemkiewicz

Results of long-term experiments and field experience on species selection, fertilization, reforestation, topsoil, shrub propagation and establishment are presented. PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1985, 416 pp.

Proceedings: Workshop on Reconstruction of Forest Soils in Reclamation RRTAC 80-4

P. F. Ziemkiewicz, S. K. Takyi and H. F. Regier

Experts in the field of forestry and forest soils report on research relevant to forest soil reconstruction and discuss the most effective means of restoring forest capability on mined lands. PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1980, 160 pp. tables

Propagation Study: Use of Trees and Shrubs for Oil Sand Reclamation RRTAC 84-2

Techsan Engineering Ltd.

Report evaluates and summarizes all available published and unpublished information on large-scale propagation methods for shrubs and trees to be used in oil sand reclamation. PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1984, 58 pp.

Reclamation Research Annual Report - 1984 RRTAC 85-2

P. F. Ziemkiewicz

Annual report of the Reclamation Research Program indicating priorities, and describing each research project, researchers, results and expenditures. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1985, 29 pp.

Reclamation Research Annual Report - 1985 RRTAC 86-8

P. F. Ziemkiewicz

Annual report of the Reclamation Research Program indicating priorities, and describing each research project, researchers, results and expenditures. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 36 pp.

The Role of Organic Compounds in Salination of Plains Coal Mining Sites RRTAC 80-3

N. S. C. Cameron et al.

A literature review of the chemistry of sodic mine spoil and the changes expected to occur in groundwater. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1980, 46 pp., maps, illus., tables

Soil Microbiology in Land Reclamation 2 Volumes RRTAC 84-4

D. Parkinson, R. M. Danielson, C. Griffiths, S. Visser and J. C. Zak

A collection of five reports dealing with the re-establishment of fungal decomposers and mycorrhizal symbionts in various amended soil types. PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1984, 676 pp.

Wildlife Habitat Requirements and Reclamation Techniques for the Mountains and Foothills of Alberta RRTAC 86-9

R. E. Salter and D. G. Walker

PRICE: $10 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1986, 285 pp.

Workshop Proceedings: Effects of Coal Mining on Eastern Slopes Hydrology RRTAC 83-4

P. F. Ziemkiewicz

Technical papers presented deal with the impacts of mining on mountain watersheds, their flow characteristics and resulting water quality. Mitigative measures and research priorities were also discussed. PRICE: $5 **(CANADIAN FUNDS)** by cheque or money order, payable to the Provincial Treasurer, available from Queen's Printer.
1983, 125 pp.

RANGE

Interpretation of Native Range Vegetation From 1:500 70-mm Large Scale Color and Color Infrared Photography

R. Nesby

Remote sensing of native range vegetation.
1985, 42 pp., maps, illus., tables **Limited Distribution**

Range Notes

Published periodically to share findings and recommendations arising from applied research conducted by the Range Management Section of Public Lands Division.

Vol. 1, No.2 Control of Western Snowberry

B. W. Adams, C. J. Richardson

1986, 4 pp. **Limited Distribution**

Vol. 1, No.3 Shoreline Grazing

G. Ehlert

1986, 8 pp. **Limited Distribution**

RANGE RESEARCH

Effect of Fire on a Symphoricarpos Occidentalis Shrub Community in Central Alberta
M. L. Anderson and A. W. Bailey
Report on the response of a western snowberry plant community to fire. (Reprinted from the Canadian Journal of Botany.)
1979, 5 pp., tables

Forage Production on Selected Native Prairie Sites in Southern Alberta
S. Smoliak, B. W. Adams, B. G. Schuler, R. A. Wroe, S. G. Klumph, and W. D. Willms
Outlines the results of forage production clipping studies to monitor seasonal variation of native forage production on long-term monitoring sites.
1985, 46 pp., tables **Limited Distribution**

Prescribed Burning of a Festuca-Stipa Grassland
A. W. Bailey and M. L. Anderson
Report on the response of the plant community to fire. (Reprinted from the Journal of Range Management.)
1978, 4 pp., tables

Thematic Mapper Data Used For Range Land Management in the Rough Fescue Grasslands in Western Canada
K. P. B. Thomson, C. Gosselin, R. W. Adams and I. Sutherland
Describes projects which evaluated LANDSAT Thematic Mapper data for range management applications in southwestern Alberta. (Reprinted from the Canadian Journal of Remote Sensing 11:162-177.)
1985, 15 pp. **Limited Distribution**

RECLAMATION

Disposal of Drilling Wastes in the Mountains
David A. Lloyd
The impact of drilling wastes on mountainous terrain and appropriate disposal techniques are discussed.
1986, 10 pp. **Limited Distribution**

Oil and Gas Drilling Waste Management Considerations
David A. Lloyd
Environmental site parameters and drilling waste components are considered to determine how drilling wastes may possibly be disposed of by Public Lands Division staff in Alberta.
1986, 20 pp. **Limited Distribution**

Oil and Gas Drilling Wastes: The Potential for Land Farming
David A. Lloyd
Outlines a safe disposal method for oil and gas drilling wastes.
1986, 9 pp., tables **Limited Distribution**

Revegetation and Reclamation of a Sandy Regosols
David A. Lloyd and S. Smoliak
Eight native and tame grass species were tested with two legumes to determine which grass and legume species perform best in sandy soils.
1986, 25 pp. **Limited Distribution**

RESOURCE MANAGEMENT

GENERAL

Alberta Land Information and Mapping/Information sur les Terres et Cartographie en Alberta
Gives a glimpse of some of the work undertaken jointly by the province's innovative private companies and the Government of Alberta to develop an information system for resource planning and decision-making.
1984, 16 pp., illus.

Natural Resources Information Directory
Edited by D. W. Perrin
An index for retrieving and assessing natural resource and land-related information on Alberta. PRICE $6 for non-government agencies by cheque or money order in **CANADIAN FUNDS** payable to the Provincial Treasurer, available from Maps Alberta and the Information Centre.
1985, 487 pp. maps, tables

A Policy for Resource Management of the Eastern Slopes, Revised 1984
Outlines the Government of Alberta's policy for managing public lands and resources in the Eastern Slopes region, which includes the foothills and front ranges of the Rocky Mountains. Describes the policy and regional plan for the integration of all resources found in this region.
booklet, 1984, 20 pp., illus., maps, tables

Role of Economics in Integrated Resource Management - Hinton, Alberta 16 - 18 October 1985
Edited by T. J. Cottrell
Proceedings of the 1985 symposium that explored the role of economics in integrated resource management. PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
booklet, 1984, 20 pp., illus., maps, tables

INTEGRATED RESOURCE PLANS - GRAZING RESERVES

Bear Canyon Grazing Reserve Land Use Plan
An integrated resource management plan for a provincial grazing reserve.
1977, 49 pp., maps **Limited Distribution**

Fort Vermilion Grazing Reserve Land Use Plan
An integrated resource management plan for a provincial grazing reserve.
1977, 82 pp., maps **Limited Distribution**

Manning Grazing Reserve Land Use Plan
An integrated resource management plan for a provincial grazing reserve.
1977, 76 pp., maps **Limited Distribution**

INTEGRATED RESOURCE PLANS - LOCAL

Bear River-Wapiti Local Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Bear River-Wapiti area. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987, 76 pp., maps

Beaverhill Lake Land Use Plan
1981, 17 pp., illus., tables

Frost Hills Local Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Frost Hills area. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 44 pp., illus., maps

Smoky-Peace Point Local Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Smoky-Peace Point area. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987

INTEGRATED RESOURCE PLANS - SUB-REGIONAL

Big Bend Sub-Regional Integrated Resource Plan
I. Dyson
An integrated resource plan for the allocation and management of public lands and resources in the Big Bend sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 128 pp., maps

Brazeau-Pembina Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Brazeau-Pembina sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, 80 pp., maps

Castle River Sub-Regional Integrated Resource Plan
J. Narczyk
An integrated resource plan for the allocation and management of public lands and resources in the Castle River sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 123 pp., maps, tables

Jean D'Or Prairie Sub-Regional Integrated Resource Plan
J. Rivait
An integrated resource plan for the allocation and management of public lands and resources in the Jean D'Or Prairie sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 53 pp., maps, tables

Kananaskis Country Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Kananaskis sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, 108 pp., maps

Keg River Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Keg River sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987, 39 pp.

Lakeland Sub-Regional Integrated Resource Plan
A. Bowcott
An integrated resource plan for the allocation and management of public lands and resources in the Lakeland sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1985, 85 pp., maps, tables

Livingstone-Porcupine Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Livingstone-Porcupine sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987, 162 pp., maps

Nordegg-Red Deer River Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Nordegg-Red Deer River sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, 174 pp., maps, tables

Rocky-North Saskatchewan Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Rocky-North Saskatchewan sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987, 110 pp., maps

Sturgeon Lake-Puskwaskau East Sub-Regional Integrated Resource Plan
An integrated resource plan for the allocation and management of public lands and resources in the Sturgeon Lake-Puskwaskau sub-region of Alberta. PRICE: $5 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1987

INVENTORIES AND EVALUATIONS

Biophysical Analysis and Evaluation of Capability

Reports and accompanying maps classifying land area by ecological (biophysical) parameters. The classification is the basis for land-use evaluations (presented by a system of land-use capability ratings).

Blueberry Mountain
C. Van Waas
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1978, 46 pp., maps

Clear River
L. K. Brocke
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1976, 52 pp., maps

Cold Lake
P. M. Ojamaa
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1978, 46 pp., maps

Dixonville
C. Van Waas
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1977, 30 pp., maps

Fort Assiniboine
E. Boyacioglu
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1975, 31 pp., maps

High Level
P. Kumar
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1977, 47 pp., maps

La Crete
T. F. Cameron
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1977, 47 pp., maps

Lake George
C. Van Waas and E. Boyacioglu
Photocopies available. PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1973, 32 pp. maps

Land Use Study Suffield Block
Land Use Assignment Committee
Photocopies available. PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1975, 96 pp., maps, illus., tables

Little Smoky
P. M. Djamaa
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1978, 28 pp., maps

Rochester
P. Kumar
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1976, 26 pp., maps

Sturgeon Lake
E. Boyacioglu
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1977, 30 pp., maps

Whitecourt
C. Van Waas
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1978, 39 pp., maps

Whitemud Hills
C. Van Waas
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1977, 32 pp., maps

Ecological Land Classification and Evaluation

Reports and accompanying maps classifying land areas by ecological (biophysical) parameters.

Brazeau-Pembina
K. L. Dutchak
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1981, 66 pp., maps, illus., tables

Carcajou
K. L. Dutchak
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1979, 49 pp., maps

Frost Hills
W. L. Strong
PRICE: $10 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1982, 57 pp., maps, tables

Highwood-Sheep
H. G. Anderson
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1979, 63 pp., maps

Jean D'Or Prairie
W. L. Strong
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1981, 60 pp., maps, illus., tables

Kananaskis Country
C. A. McGregor
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 111 pp., Volume II, maps, illus., tables

Livingstone-Porcupine
W. L. Strong
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1979, 89 pp., maps

Red Deer-James
H. A. Stelfox
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, 115 pp., maps, illus., tables

Rocky-North Saskatchewan
K. L. Dutchak
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1984, maps, illus., tables

Swan Hills Townsite
W. L. Strong
PRICE: $10 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1982, 20 pp., maps, tables

Forage Inventory

Reports and accompanying maps classifying the vegetation of the area to determine annual herbaceous forage.

Brazeau-Pembina Study Area
R. L. Wehrhahn
1981, 97 pp., maps, illus., tables **Limited Distribution**

Frost Hills Study Area
K. W. Bishoff - Revised by D. J. Downing
1984, 118 pp., maps, tables **Limited Distribution**

Ram-Clearwater Study Area
J. H. Archibald
1982, 91 pp., maps, illus., tables **Limited Distribution**

Integrated Resource Inventories

Inventories of the physical landscape, including geomorphology, geology, relief, drainage, slope, soils and vegetation. Accompanying maps available from Maps Alberta.

Integrated Resource Inventory - Ecological Zonation of Northwestern Alberta - Volume I

J. H. Archibald

PRICE: $4 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, maps, illus.

Integrated Resource Inventory - Grande Prairie Country West Vol. I & II

D. O'Leary and D. Downing

PRICE: $8 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, Vol. I - 78 pp., Vol. II - 148 pp., maps, tables

Integrated Resource Inventory of the Keg River Area Vol. I & II

D. Brierley, D. Downing and D. O'Leary

PRICE: $8 (**CANADIAN FUNDS**) by cheque or money order, payable to the Provincial Treasurer, available from the Information Centre.
1986, maps, illus., tables

Integrated Resource Inventory - Kimiwan-Winagami Vol. I & II

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Physical Land Classification

A description of the physical landscape including geology, relief and geomorphology, drainage, slope and soils. Physical land classification maps to accompany these reports are available from Maps Alberta.

Berland Current Regional Plan Study Area

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K. Bessie, L. J. Knapik and A. M. McCann (Pedocan Ltd.)

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1979, 17 pp., maps, illus.

Ram-Clearwater Study Area
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1986, 32 pp., illus., tables

Rochester Study Area (Preliminary)
W. S. Tedder, N. B. Ferguson and E. W. Karpuk
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W. L. Strong and K. R. Leggat

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A proposed technique for classifying the landscape into areas of similar inherent sensitivity.

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R. C. Shelford, N. B. Ferguson and S. Kish

A case study using the techniques developed in the Terrain Sensitivity Classification Methodology.

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SURVEYING AND MAPPING

Consolidated Bibliography on Land-Related Information Systems
Land-Related Information Services Group
Bibliographic references on land-related information systems along with the location of documents and abstracts where available.
1984, 770 pp., with annual updates **Limited Distribution**

Determination of Optimum Sampling Interval in DEM Data Acquisition
A. E. Balce
A guide for grid sampling of digital elevation models (DEM), by photogrammetric methods using a specified accuracy of heights to be interpolated from the sampled DEM.
1986, 58 pp., illus., tables

Development and Implementation of a Photogrammetric Control System in Alberta
A. E. Balce
A system of storage and retrieval of photogrammetric control materials and data, available to government and private sectors.
1985, 7 pp.

Index to Alberta Township Survey Plans - July 1985
A comprehensive record of all survey plans completed under the Third Dominion Land Survey System. The index is divided into four sections: Township Plans, Baseline Plans, East Outline Plans and Settlement Plans. PRICE: $5 (CANADIAN FUNDS) by cheque or money order, payable to the Provincial Treasurer, available from Maps Alberta, Forestry, Lands and Wildlife, 2nd Floor, North Petroleum Plaza, 9945 - 108 Street, Edmonton, Alberta, Canada T5K 2G6. Phone: (403) 427-3520.
1985, 88 pp.

Maps Alberta Air Photos
Air photo price list and ordering procedure.
1986, brochure

Maps Alberta Catalogue 1988-89
Lists the maps available from the Bureau of Surveying and Mapping, the province's major distributor of provincially and federally published maps.
1988, 49 pp.

Status and Applications of the Alberta Photogrammetric Control System
This paper deals with applications of APCS data including map compilation, quantity determination, map revision, land surveying and land information services. Estimated accuracies of derived coordinates are also included. The status of the system is presented.
1987, 5 pp., maps, tables

WILDLIFE

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Compulsory Registration of Big Game Kills in North America

G. Lynch and H. Carr

Results of questionnaires sent to 62 wildlife management agencies regarding the use of compulsory registration.

1974, 18 pp., tables **Limited Distribution**

LAW ENFORCEMENT

Factors Associated with Wildlife Law Violation in Alberta

M. J. Melnyk

Determines the factors that account for non-compliance with Alberta wildlife laws. Results are based on a questionnaire that was mailed to a sample of resident Alberta hunters who purchased hunting licences during the 1976 season, and all resident violators prosecuted under either the Wildlife Act or the Migratory Birds Convention Act during 1976.

1978, 115 pp., tables **Limited Distribution**

Forensic Science: Symposium Proceedings - April 13, 14, 15, 1977, Calgary, Alberta

Proceedings of the 1977 international symposium, held for law enforcement personnel, wildlife managers and forensic scientists to exchange views about how forensic science could serve as a tool for modern wildlife law enforcement.

1977, 321 pp., tables **Limited Distribution**

Hunter Attitudes Toward Alberta's Wildlife Laws and Wildlife Officers

M. J. Melnyk

Results of a 1975 study in north-central Alberta, to determine the attitudes of resident hunters toward wildlife laws and wildlife officers. Investigated were differences in known violator/non-violator attitudes, factors influencing attitude favorability and differences among violator and non-violator characteristics.

1977, 26 pp., illus., tables **Limited Distribution**

MANAGEMENT

Interactions of Nordic Skiers with Ungulates in Elk Island National Park

M. A. D. Ferguson and L. B. Keith

Results of a questionnaire to skiers in January - March 1979 on use of the park, observations of wildlife, flight responses, values of skiing and closing of trails to mitigate harmful effects on wildlife.

1981, 31 pp. maps, tables **Limited Distribution**

Response of Coyotes to Winter Reduction in Agricultural Carrion

A. W. Todd and L. B. Keith

Summary of results of a study to evaluate the control of coyote populations through elimination of agricultural carrion in the winters of 1972/73 and 1973/74 near Westlock, Alberta.

1976, 32 pp., illus., tables

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